PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference				
P0133PCT FOR FORTHER AC				
International application No. PCT/ES2004/000147	International filing date (day/mo. 31.03.2004	nthlyear) Priority date (day/monthlyear) 31.03.2003		
International Patent Classification (IPC) or national classification and IPC				
C12N7/04				
Applicant				
CONSEJO SUPERIOR DE INVESTIGACIONES CIENT et al				
This report is the international pre Authority under Article 35 and train	eliminary examination report, ensmitted to the applicant accor	stablished by this International Preliminary Examining rding to Article 36.		
2. This REPORT consists of a total of sheets, including this cover sheet.				
3. This report is also accompanied by ANNEXES, comprising:				
a. sent to the applicant and to the International Bureau) a total of sheets, as follows:				
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).				
sheets which superse beyond the disclosure	de earlier sheets, but which th	is Authority considers contain an amendment that goes n as filed, as indicated in item 4 of Box No. I and the		
Supplemental Box. b. (sent to the International E	Bureau only) a total of (indicate	type and number of electronic carrier(s)) , containing a		
sequence listing and/or tal	ples related thereto, in comput	er readable form only, as indicated in the Supplemental e Administrative Instructions).		
Box Helating to dequence	. Libining (500 Goodieri 552 Gran	,		
4. This report contains indications re	elating to the following items:			
☐ Box No. I Basis of the op	inion			
☐ Box No. II Priority				
☐ Box No. III Non-establishm	nent of opinion with regard to r	novelty, inventive step and industrial applicability		
☐ Box No. IV Lack of unity of				
☐ Box No. V Reasoned state applicability; cit	ement under Article 35(2) with tations and explanations suppo	regard to novelty, inventive step or industrial orting such statement		
☐ Box No. VI Certain docum				
	in the international application			
☐ Box No. VIII Certain observ	ations on the international app	dication		
Date of submission of the demand	Date	of completion of this report		
27.01.2005	13.0	07.2005		
Name and mailing address of the international		orized Officer		
preliminary examining authority:		1 100		
D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d		neffzyk-Sonnauer,		
Fax: +49 89 2399 - 4465		phone No. +49 89 2399-8602		

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/ES2004/000147

JC20 Rec'd PCT/PTO 3 0 SEP 2005

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	Box No. I Basis of the report		
1.	. With regard to the language , this report is based on the international application in the language in which it filed, unless otherwise indicated under this item.		
	which is the language of a tr	slations from the original language into the following language, anslation furnished for the purposes of:	
	☐ international search (und☐ publication of the internat☐ international preliminary of	er Rules 12.3 and 23.1(b)) cional application (under Rule 12.4) examination (under Rules 55.2 and/or 55.3)	
2.	With regard to the elements* of the international application, this report is based on (replacement sheets wh have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):		
		• •	
	Description, Pages		
	1-37	as originally filed	
	Claims, Numbers		
	1-38	as originally filed	
	Drawings, Sheets		
	1/9-9/9	as originally filed	
	☐ a sequence listing and/or ar	ny related table(s) - see Supplemental Box Relating to Sequence Listing	
3	. The amendments have resu	ulted in the cancellation of:	
	the description, pagesthe claims, Nos.		
	the drawings, sheets/figs		
	☐ the sequence listing (sp.☐ any table(s) related to se	ecify): equence listing (specify):	
4	This report has been estable had not been made, since they Supplemental Box (Rule 70.2(c))	lished as if (some of) the amendments annexed to this report and listed below have been considered to go beyond the disclosure as filed, as indicated in the)).	
	☐ the description, pages ☐ the claims, Nos. ☐ the drawings, sheets/figs ☐ the sequence listing (sp	ecify):	
	any table(s) related to s	equence listing (specify): Ome or all of these sheets may be marked "superseded."	
	+ If item 4 applies s	ome or all of these sneets may be marked "superseded."	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/ES2004/000147

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-7,9,12,16,18,19,21,23-25,28-30,35-38

No: Claims

8,10,11,13,14,15,17,20,22,26,27,31-34

Inventive step (IS)

Yes: Claims

No: Claims

1-38

Industrial applicability (IA)

Yes: Claims

1-38

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

PCT/ES2004/000147

SECTION V-----

As already mentioned in the application (cf. pp. 4 and 5) hitherto a great number of IBDV VLPs have been described in the prior art (cf. e.g. Lombardo E. et al., 1999, J. Virol. 73, 6973-83 (1), cited in the application). Correspondingly, claims relating to such capsids cannot be considered to be novel; i.e. claims 26, 27,31,32, 33, 34 lack novelty. As regards claims 32-34 it is noted that an indication of use is not considered limiting the scope of a product claim, i.e. the claim relates to the product as such.

In addition, the HeLa cells described in (1) (see section Materials and Methods) coinfected with VT7LacOl/POLY and VT7LacOl/VP1 anticipate at least novelty of claims relating to expression systems wherein the first and second promoter are identical (see e.g. claim 8b, 10, 11, 13, 14, 15, 17). Correspondingly in view of the disclosure of (1) claims 20 and 22 also lack novelty.

Finally, in the light of the teaching of (1) presently claimed subjet-matter only can be seen as an obvious alternative to a person skilled in the art working in the field of IBDV. Consequently, for the time being the presence of an inventive step cannot be acknowledged.

SECTION VIII-----

- 1). With respect to claims directed to the use of VLPs as vaccine Applicant's attention is drawn to page 5, lines 4 and 5 of present application where it is stated that the capsids taught in (1)- which are identical to those as presently claimed- are not suitable for vaccination purposes. This seems to be in contradiction with presently claimed subject-matter, in particular with respect to claims 28-34. Thus, as regards these claims objections under Art. 6/5 PCT also arise.
- 2). Claims containing the term "corresponding to" are objected to under Art. 6 PCT for lack of clarity since said term does not convey an exact meaning.

SECTION VII-----

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

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- 1). According to claims 8b, 10 and 25 the first and second promoter must not be different as required in claim 1 but can be the same. This option possibly entails problems inter alia with respect to unity.
- 2). In its broadest meaning the term "expression system" covers human beings which are per se not patentable.
- 3). Claims 21 and 22 seem to be redundant in view of claim 20.